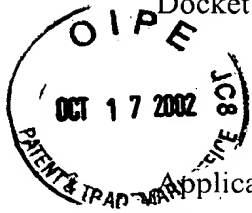


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PATENT

Docket No. 00SC048US7



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: JOHN A. HIGGINS

Examiner: LEE, BENNY T.

Serial No. 09/676,142

Art Unit: 2817

Filing Date: September 29, 2000

For: PHASE SHIFTING WAVEGUIDE AND MODULE UTILIZING
THE WAVEGUIDES FOR BEAM PHASE SHIFTING AND STEERING

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT TRANSMITTAL

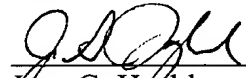
Sir:

Transmitted herewith is an Amendment for this application along with a Petition for a one-month extension of time. Applicant is a large entity.

If any additional fee is required, please charge Deposit Account No. 18-1750. A duplicate of this transmittal is attached.

Respectfully submitted,

October 17, 2002



Jaye G. Heybl
Registration No. 42,661
Attorney for Applicant

KOPPEL, JACOBS, PATRICK & HEYBL
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M/J3-00SC048US7Amend. Trans.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Higgins

Serial No.: 09/676,142✓

Examiner: Benny T. Lee

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Art Unit: 2817

Title: PHASE SHIFTING WAVEGUIDE AND MODULE UTILIZING THE WAVEGUIDE FOR BEAM PHASE SHIFTING AND STEERING

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT

Sir:

In response to the Office Action dated June 17, 2001, kindly amend the above application as follows:

Specification

Replace the paragraph on page 1, lines 11-26 with the following:

Electromagnetic signals are commonly guided from a radiating element to a destination via a coaxial cable, metal waveguide, or microstrip transmission line. As the frequency of the signal increases, these devices must have smaller cross-sections to transmit the signals. For example, a metal waveguide that is 58.420 cm wide and 29.210 high at its inside dimensions, transmits signals in the range of 0.32 to 0.49 GHz. A metal waveguide that is 0.711 cm wide and 0.356 cm high at its inside dimensions, transmits signals in the range of 26.40 to 40.00 GHz.

C { Dorf, The Electrical Engineering Handbook, Second Edition, Section 37.2, Page 946 (1997) B. As the signal frequencies continue to increase, a point is reached where use of these

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